Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A motor having a rotor with a permanent magnet, a rotary shaft extending from the rotor and a stator placed around the rotor, the motor comprising:

a stator core placed at least on one end section in a motor axial line direction of the stator, the stator core including a plurality of salient poles that bend in the motor axial line direction at an inner circumferential edge of the stator core to oppose the permanent magnet, and concave sections that recede in the radial direction and formed between the bent parts of the salient poles;

a bearing plate that includes a cylindrical bearing in a center thereof that is integrally extended from the bearing plate for rotatably supporting the rotary shaft, ~~and is~~ the bearing plate being placed at an end section of the stator adjacent to the stator core; and

an end plate fixed to an end surface of the stator core on an outer circumference side of the bearing plate, wherein the bearing plate has a plurality of engaging sections that hook on the end surface of the stator core and engage with an end face of the stator core in the axial direction, and a plurality of first convex sections that protrude towards inside of the concave sections of the stator core and hook on an end surface of the end plate, the first convex sections being held at the end surface of the stator core and the end surface of the end plate within the concave sections and having tip end parts engaged with the end plate in the axial direction, and

wherein the bearing plate is fixed in the axial direction such that movement of the bearing plate on a stator core side is prevented by the stator core and movement of the bearing plate on an end plate side is prevented by the end plate.

2-3. (Canceled)

4. (Original) A motor according to claim 1, wherein the engaging sections of the bearing plate do not overlap the end plate in the motor axial line direction.

5. (Original) A motor according to claim 4, wherein the first convex sections of the bearing plate overlap the end plate in the motor axial line direction.

6. (Original) A motor according to claim 1, wherein the engaging sections define a plurality of second convex sections that protrude outwardly from the bearing plate, and the end plate defines a hole to receive the bearing plate therein and has notches that receive the second concave sections at a circumferential edge of the hole.

7. (Original) A motor according to claim 6, wherein the second convex sections of the bearing plate do not overlap the end plate in the motor axial line direction.

8. (Original) A motor according to claim 6, wherein the first convex sections of the bearing plate overlap the end plate in the motor axial line direction.

9. (Original) A motor according to claim 6, wherein the bearing plate includes a main body part and the second convex sections project outwardly in a radial direction of the stator from the main body part without bending in the motor axial line direction.

10. (Original) A motor according to claim 9, wherein the first convex sections extend in the motor axial line direction from the main body part and then extend outwardly in the radial direction of the stator.

11. (Original) A motor according to claim 1, wherein an outer end surface of the bearing plate is in a position more recessed than an outer end surface of the end plate in the motor axial line direction.

12. (Original) A motor according to claim 11, wherein the bearing of the bearing plate does not protrude from the end plate outwardly in the motor axial line direction.

13. (Currently amended) A motor having a rotor with a permanent magnet, a rotary shaft extending from the rotor and a stator placed around the rotor, the motor comprising:

a stator core placed at least on one end section in a motor axial line direction of the stator, the stator core including a plurality of salient poles that bend in the motor axial line direction at an inner circumferential edge of the stator core to oppose the permanent magnet, and concave sections that recede in the radial direction and formed between the bent parts of the salient poles; and

a bearing plate that includes a cylindrical bearing in a center thereof that is integrally extended from the bearing plate for rotatably supporting the rotary shaft, ~~and is~~ the bearing plate being placed at an end section of the stator adjacent to the stator core,

wherein the bearing plate includes a plurality of engaging sections that engage with an end face of the stator core in an axial direction, and a plurality of positioning convex sections that project into the concave sections of the stator core and abut inner ~~end~~ ends of the concave sections, the positioning convex sections having tip end parts that are engaged with an end plate fixed to an end surface of the stator core on an outer circumference side of the bearing plate in the axial direction, and

wherein the bearing plate is fixed in the axial direction such that movement of the bearing plate on a stator core side is prevented by the stator core and movement of the bearing plate on an end plate side is prevented by the end plate.

14. (Currently amended) A motor according to claim 13, wherein the ~~positioning convex sections define~~ tip end parts ~~that~~ abut the inner end of the concave sections to thereby position the bearing plate in the radial direction with respect to the stator core.

15. (Canceled)

16. (Original) A motor according to claim 13, wherein the stator core is formed by press processing.

17. (Currently amended) A motor according to claim 13, ~~further comprising an end plate that is fixed to an end surface of the stator core on the outer circumference side of the bearing plate,~~ wherein the ~~bearing plate includes another~~

~~set of convex~~ engaging sections ~~that~~ extend in a radial direction of the stator, and the end plate includes a plurality of notches that engages the ~~another set of convex~~ engaging sections of the bearing plate.

18. (Original) A motor according to claim 17, wherein the bearing plate includes a main body part, and the positioning convex sections extend in the motor axial line direction from the main body part and then extend outwardly in the radial direction of the stator.

19. (Original) A motor according to claim 18, wherein an outer end surface of the bearing plate is in a position more recessed than an outer end surface of the end plate in the motor axial line direction.

20. (Original) A motor according to claim 18, wherein the end plate includes a hole section that receives the bearing plate wherein the positioning convex sections extend outside of the hole section of the bearing plate in the radial direction and on an inside of the end plate.